

# FEBS Advanced Courses

## No. 82/02. "Biochemistry and Genetics of Yeasts", Madrid, Spain, 5-24 July 1982

The Course is intended to acquaint its 24 participants with the potentialities of yeast as a model eukaryotic system to study enzyme regulation and gene expression. The course will include lectures, seminars and practical work. Topics will include energetics, physiological inactivation of enzymes, compartmentalization and regulation, complementation and recombination, yeast transformation, and cloning of yeast genes. Mainly basic aspects will be covered but the relation of yeasts to the fermentation industry and pathogenic processes will also be considered.

Lecturers will include: J Conde, G Fink, C Gancedo, J M Gancedo, H Holzer, F Lacroute, R Serrano, P V Venkov, A Wiemken and F Zimmermann. Seminars will be given by other invited speakers.

Course fee, including accommodation and breakfast: approx. 35 000 ptas.

Applications, including a short curriculum and reasons for attending the course, should be sent to Dr C Gancedo, Instituto de Enzimología del C.S.I.C., Facultad de Medicina de la Universidad Autónoma, Arzobispo Morcillo, 4, Madrid-34, Spain, *before 28 February 1982*.

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## No. 82/07. "Replication of Bacterial Plasmids", Odense, Denmark, 2-18 August 1982

A laboratory course for 12 students, organized by Kurt Nordström and Søren Mølen, concentrating on plasmid replication and its control, plasmid partitioning at cell division and the correlation between these processes and plasmid incompatibility. The course will include theoretical and practical parts:

The theoretical part will be organized as mini-symposia, including short communications by participants, covering the following aspects of plasmids: Introduction to plasmid biology; Plasmid incompatibility; Conjugal transfer of plasmids; Transposons; Control of replication; Genetic engineering, Plasmid partitioning; Biochemistry and genetics of replication; Replication of animal viruses; Gene product analysis; Plasmids inducing tumours in plants - a system for gene manipulation in plants; Cloning of the nitrogen fixation operon.

The experimental part aims at introducing various techniques and experimental approaches used in plasmid research as well as in work where plasmids are used as experimental tools. The main biological material used will be *E. coli* and the two plasmids R1 (conjugative) and ColE1 (non-conjugative). The practicals will cover: Primary analysis of plasmids including studies of plasmid DNA and of plasmid-mediated phenotypes; Various methods of transfer of plasmids from one strain to another (self-transfer as well as mobilization by means of a helper plasmid and transformation); Genetic manipulation of plasmids (cloning of plasmid fragments onto plasmid vectors and transposition of transposons onto plasmids); Studies of expression of plasmid genes; Plasmid replication will be studied *in vivo* by the isolation and characterization of plasmid copy mutants as well as *in vitro*; Plasmid partitioning.

Registration fee, including accommodation but not meals: DM400.

Further information and application forms (to be returned by *31 March 1982*) are available from: Dr Kurt Nordström, Department of Molecular Biology, Odense University, Campusvej 56, DK-5220 Odense M, Denmark.

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## No. 82/04. "Structure and Metabolism of Glycoconjugates", Lille, France, 6-18 September 1982

The fee for this Course, including accommodation and meals, will be approx. FF 2000.

Applications should be sent by *1 April 1982* to: Professeur J Montreuil, Université des Sciences et Techniques de Lille I, Laboratoire de Chimie Biologique, 59655 Villeneuve d'Ascq Cédex, France, from whom further information may be obtained.

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## No. 82/05. "Structure and Function of Plant Genomes", Erice, Sicily, Italy, 1-11 September 1982

A Course of lectures, discussions and poster presentations, for about 120 students. The main topics will be: Structure, organization and expression of the nuclear genome; Structure, organization and expression of chloroplast genome; Structure, organization and expression of the mitochondrial genome in higher plants; Biosynthesis of plant storage proteins; Genetic manipulation of higher plants; Nitrogen fixation; Molecular biology of host-pathogen interaction; Molecular biology of plant viruses.

Speakers will include: P Albersheim, K Apel, F Ausubel, L Bogorad, W Brill, M D Chilton, N Chua, O Ciferri, L Dure, M Edelman, N Fedoroff, R Flavell, R Goldberg, M Gray, T Guilfoyle, K Hahlbrock, T Hall, R Hallick, R Haselkorn, R Hull, J Key, H Kossel, C Lamb, B Larkins, C J Leaver, B Miflin, J-D Rochaix, J Schell, R Schilperoort, L van Vloten-Doting, J Varner, D P Verma, D von Wettstein, J H Weil and S Wildman.

The living expenses for the course will be approx. US\$ 450. All participants will be expected to present a poster.

Applications, with a curriculum vitae, a provisional poster abstract, and other information which might help in their evaluation, should be sent in duplicate to arrive not later than *15 March 1982* to: Dr Orsola Tiboni, P O Box 202, 27100 Pavia, Italy.

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